



**Missouri Department of Natural Resources**  
**Third Fork Platte River - WBID 0327**  
**Aquatic Invertebrate Monitoring by MoDNR 2005-2006**

Org	Site	Site Name	Date	Score
MoDNR	327/2.5	Third Fk. Platte ab. SE Kemmer Rd.	Fall 2005	20
MoDNR	327/7.2	Third Fk. Platte ab. CR 123	Fall 2005	18
MoDNR	327/13.3	Third Fk. Platte ab. CR 272	Fall 2005	16
MoDNR	327/19.6	Third Fk. Platte bl. NW Fairmount Rd.	Fall 2005	14
MoDNR	327/25.1	Third Fk. Platte @Hwy 169 (above STP)	Fall 2005	14
MoDNR	327/27.7	Third Fk. Platte bl NW Pleasant Rd.	Fall 2005	14
MoDNR	327/2.5	Third Fk. Platte ab. SE Kemmer Rd.	Spring 2006	20
MoDNR	327/7.2	Third Fk. Platte ab. CR 123	Spring 2006	20
MoDNR	327/13.3	Third Fk. Platte ab. CR 272	Spring 2006	20
MoDNR	327/19.6	Third Fk. Platte bl. NW Fairmount Rd.	Spring 2006	18
MoDNR	327/25.1	Third Fk. Platte @Hwy 169 (above STP)	Spring 2006	14
MoDNR	327/27.7	Third Fk. Platte bl NW Pleasant Rd.	Spring 2006	18

The Missouri Department of Natural Resources collected and analyzed aquatic invertebrate samples. Staff followed the department's Environmental Services Program's written standard operating methods contained in "Semi-Quantitative Macroinvertebrate Stream Bioassessment" by R. Sarver, 2003. Invertebrate communities are judged to be impaired if the percent of sampling sites receiving a score of 16 or more is significantly less than for reference streams in the same ecological drainage unit. Scores of 16 or more are considered to reflect unimpaired macroinvertebrate communities.

Reference streams in this ecological drainage unit score 16 or higher on 70.0 percent of all samples. For Third Fork, eight of 12 samples, or 66.7 percent, scored 16 or higher. For a stream that scores 16 or higher on 70 percent of all samples, eight scores of 16 or higher out of 12 samples has a binomial probability Type One error rate of 0.508. Since this is greater than the acceptable Type One error rate of 0.05, this is judged to have an **unimpaired** aquatic invertebrate community.

Missouri Department of Natural Resources, Water Protection Program, [www.dnr.mo.gov](http://www.dnr.mo.gov), (573) 751-1300  
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